	Application No.	Applicant(s)	
Notice of Allowability	10/643,958	NAGATA ET AL.	
	Examiner	Art Unit	
	David N. Spector	2873	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet w. (OR REMAINS) CLOSED i ) or other appropriate comm IGHTS. This application is	ith the correspondence address n this application. If not included unication will be mailed in due cours	
1. This communication is responsive to <u>FAOM</u> .			
2. The allowed claim(s) is/are <u>1-16</u> .			
3. $\boxtimes$ The drawings filed on <u>08/20/2003</u> are accepted by the Exa	aminer.		
<ul> <li>4.  Acknowledgment is made of a claim for foreign priority u <ul> <li>a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> <li>2.  Certified copies of the priority documents have</li> <li>3.  Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul> </li> </ul>	e been received. e been received in Application	on No	om the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the requiren	nents
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv			E OF
6. CORRECTED DRAWINGS ( as "replacement sheets") mu	st be submitted.		
(a) including changes required by the Notice of Draftsper	<del>-</del>	w ( PTO-948) attached	
1)  hereto or 2) to Paper No./Mail Date			
(b)  including changes required by the attached Examiner Paper No./Mail Date	's Amendment / Comment o	r in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			) of
7. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			he
Attachment(s)  1. ☑ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview S	nformal Patent Application (PTO-152	?)
3. Information Disclosure Statements (PTO-1449 or PTO/SB/		/Mail Date Amendment/Comment	
Examiner's Comment Regarding Requirement for Deposit of Biological Material	<del></del> -	Statement of Reasons for Allowand AILED ACTION - ALLOWANCE.	e:e
	·	DAVID SPECTOR	

U.S. Patent and Trademark Office PTOL-37 (Rev. 1-04)

## **DETAILED ACTION - ALLOWANCE**

1. Claims 1-16 are allowed. All claims thus being allowable, prosecution on the merits is closed in this application. A statement of the examiner's reasons for allowance is provided in the paragraph which follows below.

## Reasons for Allowance

2. The primary reason for allowance of the claims is the inclusion a novel structural/functional combination in all of the claims, wherein a deformable element is used for focusing, and two moveable lens groups are used for zooming or compensating for fluctuations of an image surface. The aforesaid structural/functional combination is broadly recited in independent claim 1 (Claim 1, Lines 2-6), and more somewhat more narrowly in independent claim 11 (Claim 11, Lines 3-9). The prior art taken either singly or in combination fails to anticipate or fairly suggest the limitations of applicant's independent claims, in such a manner that a rejection under 35 U.S.C. 102 or 103 would be proper. The claimed invention is therefore considered to be in condition for allowance as being novel and nonobvious over prior art.

## Other Remarks/Information

- 3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- 4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Nishioka et al. (US-6,618,209-B2; US-6,464,363-B1; US-2004/0070843-A1; US-

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2004/0027684-A1), Amanai (US-2003/0179464-A1), and Mihara et al. (US-2002/0136150-A1),

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inter alia, disclose representative examples in the art to which the instant invention pertains. In

particular, each of the aforesaid examples presents zoom optical systems comprising at least

one deformable mirror which is used to provide the optical functionality (e.g. focusing, zooming,

compensation of image fluctuations upon zooming, etc.) generally provided in prior art systems

by moving at least one refractive lens group(s) along the optical axis thereof.

5. Information regarding the status of an application may be obtained from the Patent Ap-

plication Information Retrieval (PAIR) system. Status information for published applications may

be obtained from either Private PAIR or Public PAIR. Status information for unpublished appli-

cations is available through Private PAIR only. For more information about the PAIR system,

see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR sys-

tem, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any other inquiry concerning this communication or earlier communications from the ex-6.

aminer should be directed to David N. Spector whose telephone number is (571) 272-2338. The

examiner can normally be reached at this number Monday through Friday between 6:00 AM and

2:30 PM. The fax number for the organization where this application is assigned is (703) 872-

9306.

September 24, 2004

DAVID N. SPECTOR

PRIMARY EXAMINER